



Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Over load / Over voltage
- Forced air cooling by built-in DC fan
- CH4:±Polarity is selectable
- Fixed switching frequency at 100KHz

Rose CBCE

SPECIFICATION

MODEL		QP-150-3	Α			QP-150-3	В			QP-150-3C							
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4				
OUTPUT	DC VOLTAGE	5V	3.3V	12V	-5V	5V	3.3V	12V	-12V	5V	3.3V	15V	-15V				
	RATED CURRENT	10A	10A	5A	0.6A	10A	10A	5A	0.6A	10A	10A	4A	0.6A				
	CURRENT RANGE	3 ~ 15A	0 ~ 15A	0.4 ~ 5A	0 ~ 1A	3 ~ 15A	0 ~ 15A	0.4 ~ 5A	0 ~ 1A	3 ~ 15A	0 ~ 15A	0.4 ~ 5A	0 ~ 1A				
	RATED POWER (max.)	146W	·	·	•	150.2W	'	·	•	152W							
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p 100mVp-p 150mVp-p 150mV _l							
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V CH2: 3.14 ~ 3.63V CH1: 4.75 ~ 5.5V CH2: 3.14 ~ 3.63V CH1: 4.75 ~ 5.5V								CH2: 3.14	4 ~ 3.63V						
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	+8,-6%	±5.0%				
	LINE REGULATION	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%				
	LOAD REGULATION	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%				
	SETUP, RISE TIME	800ms, 50ms/230VAC 800ms, 50ms/115VAC at full load															
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load															
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC															
	FREQUENCY RANGE	47 ~ 63Hz															
	POWER FACTOR (Typ.)	PF>0.95/230VAC															
	EFFICIENCY (Typ.)	73%				75%				74%							
	AC CURRENT (Typ.)	2.5A/115VAC 1.2A/230VAC															
	INRUSH CURRENT (Typ.)	COLD START ≤40A/230V															
	LEAKAGE CURRENT	<3.5mA/240VAC															
PROTECTION		105 ~ 150% rated output power															
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed															
	OVED VOLTACE	CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V															
	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover															
	OVER TEMPERATURE(OPTION)	95°C ±5°C	(TSW1)														
	OVER TEMPERATURE(OPTION)	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down															
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")															
	WORKING HUMIDITY	20 ~ 90%	RH non-co	ndensing													
	STORAGE TEMP., HUMIDITY	-20 ~ +85	℃, 10 ~ 95	5% RH													
	TEMP. COEFFICIENT	±0.03%/°	○ (0~50°C))													
	VIBRATION					h along X,	Y, Z axes										
	SAFETY STANDARDS			60950-1 ap	·												
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC															
EMC	ISOLATION RESISTANCE					VDC / 25°C											
(Note 4)	EMC EMISSION					B, EN6100											
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A															
OTHERS	MTBF			/IL-HDBK-2	217F (25℃)											
	DIMENSION		0mm (L*W ³														
	PACKING	0.93Kg; 20pcs/19.6Kg/1.28CUFT															
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is considerable.	DT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. e measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. es set up tolerance, line regulation and load regulation. is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets or guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." ttp://www.meanwell.com)															





Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage
- Forced air cooling by built-in DC fan
- CH4:±Polarity is selectable
- Fixed switching frequency at 100KHz

SPECIFICATION



MODEL		QP-150-3	D			QP-150D				QP-150F				
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
ОИТРИТ	DC VOLTAGE	5V	3.3V	24V	-12V	5V	12V	24V	-12V	5V	15V	24V	-15V	
	RATED CURRENT	10A	10A	2.5A	0.6A	10A	4A	2A	0.6A	10A	3A	2A	0.6A	
	CURRENT RANGE	3 ~ 15A	0 ~ 15A	0.3 ~ 3A	0 ~ 1A	3 ~ 15A	0 ~ 5A	0.4 ~ 3A	0 ~ 1A	3 ~ 15A	0 ~ 5A	0.4 ~ 3A	0 ~ 1A	
	RATED POWER (max.)	150.2W				153.2W				152W				
	RIPPLE & NOISE (max.) Note.2	2 100mVp-p 100mVp-p 150mVp-p 150mVp-				120mVp-p	150mVp-p	200mVp-p	150mVp-p	120mVp-p 150mVp-p 200mVp-p 150mVp-p				
	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	4 ~ 3.63V	CH1: 4.75	~ 5.5V	CH2: 11.4	~ 13.2V	CH1: 4.75 ~ 5.5V CH2: 14.3 ~ 16.5\				
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	±6.0%	±5.0%	
	LINE REGULATION	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	
	LOAD REGULATION	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	
	SETUP, RISE TIME	800ms, 50ms/230VAC 800ms, 50ms/115VAC at full load												
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
INPUT	VOLTAGE RANGE	90 ~ 264VAC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
	EFFICIENCY (Typ.)	76%												
	AC CURRENT (Typ.)	2.5A/115VAC 1.2A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START ≤ 40A/230V												
	LEAKAGE CURRENT	<3.5mA / 240VAC												
PROTECTION		105 ~ 150% rated output power												
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed												
		CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V CH1:5.75 ~ 6.75V CH2:13.8 ~ 16.2V CH1:5.75 ~ 6.75V CH2:17.25 ~ 20.25V												
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover												
		95°C±5°C (TSW1)												
	OVER TEMPERATURE(OPTION)	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-20 ~ +85	°C, 10 ~ 95	5% RH										
	TEMP. COEFFICIENT	±0.03%/°	C (0~50°C))										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes												
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved												
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3	KVAC I/F	P-FG:1.5KV	AC O/P-	FG:0.5KVA	ı.C							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/	P-FG, O/P	-FG:100M	Ohms / 500	VDC / 25°C	/ 70% RH							
(Note 4)	EMC EMISSION	Complian	ce to EN55	022 (CISPI	R22) Class	B, EN6100	0-3-2,-3							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A												
OTHERS	MTBF	141.5K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION	199*99*5	0mm (L*W	'H)										
	PACKING	0.93Kg; 2	0pcs/19.6h	(g/1.28CUF	T									
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consider.	cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. up tolerance, line regulation and load regulation. sidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." ww.meanwell.com)												



